

CLAIMS

1. A fluid dispenser pump comprising a pump body (10), a pump chamber (20) provided with an inlet valve (30) and with an outlet valve (40), and a piston (50) sliding in
5 said pump body (10) so as to dispense the fluid contained in the pump chamber (20), said outlet valve (40) comprising a valve element (41) co-operating with a valve seat (42), the fluid dispenser pump being characterized in that said outlet valve (40) further comprises
10 deformable sealing means (45, 46) provided between said valve seat (42) and said valve element (41), said sealing means (45, 46) being elastically deformed when said outlet valve (40) is in the closed position, so as to improve sealing.
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2. A pump according to claim 1, in which said piston (50) is secured to an actuator rod (5), said actuator rod being hollow and defining an expulsion channel (4) for the fluid, said valve seat (42) being formed in said
20 expulsion channel (4).
3. A pump according to claim 1 or claim 2, in which, while the pump is being actuated, the outlet valve (40) is urged towards its closed position by a spring (70),
25 said valve (40) being opened by the pressure of the fluid contained in the pump chamber (20).
4. A pump according to any preceding claim, in which said deformable sealing means (45, 46) are formed on the valve
30 element (41).
5. A pump according to any one of claims 1 to 3, in which said deformable sealing means (45, 46) are formed on the valve seat (42).
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6. A pump according to claim 4 or claim 5, in which said deformable sealing means comprise at least one deformable annular lip (45).
- 5 7. A pump according to claim 6, in which said annular lip (45) is flexible and co-operates with a frustoconical surface when the valve (40) is in the closed position.
8. A pump according to claim 6 or claim 7, in which said
10 annular lip (45) is made by overmolding.
9. A pump according to any preceding claim, in which the valve seat (42) includes a flexible annular lip (45) co-operating with a frustoconical valve element (41), said
15 valve element (41) being substantially rigid.
10. A pump according to claim 9, in which the valve seat (42) is made out of two materials, said annular lip (45) being made out of a material that is softer than the
20 remainder of the valve seat (42).
11. A pump according to claim 4 or claim 5, in which said deformable sealing means comprise a deformable O-ring (46).
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12. A pump according to claim 11, in which said O-ring (46) co-operates with a frustoconical surface when the valve (40) is in the closed position.
- 30 13. A pump according to claim 11 or claim 12, in which said O-ring (46) is secured by interfitting, snap-fastening, or overmolding.
14. A pump according to any preceding claim, in which
35 the valve element (41) is substantially rigid and includes a deformable O-ring (46) co-operating with a

frustoconical valve seat (42), said valve seat (42) being substantially rigid.

15. A fluid dispenser device, characterized in that it
5 includes a pump according to any preceding claim.